Amendments to the Specification and Abstract

In the Specification:

Before paragraph [0001] please delete the heading "Specification".

Please replace paragraph [0001] with the following rewritten paragraph:

[0001] The present invention relates to a method ~~of the type specified in the preamble of Claim 1~~ for time synchronization in at least two measuring computers cooperating over a telecommunications network such as Internet, intranet or similar, using selection of a time source, and to a device ~~according to Claim 24~~ for carrying out the method.

Before paragraph [0002] please delete insert the heading --BACKGROUND--.

Before paragraph [0012], insert the heading --SUMMARY OF THE INVENTION--.

Please replace paragraph [0013] with the following rewritten paragraph:

[0013] It is an object of the present invention to ~~further develop~~ provide a method for time synchronization of at least two measuring computers cooperating over a telecommunications network such as Internet, intranet or similar, in such a manner that a measurement can be performed even when the GPS clock fails, while avoiding the above-mentioned disadvantages.

Before paragraph [0014], please insert new paragraphs [0013.1] and [0013.2] as follows:

--[0013.1] The present invention provides a method for time synchronization of a plurality of measuring computers cooperating over a telecommunications network. The method includes:

providing a plurality of first time sources associated with a first measuring computer, each of the first time sources having a different respective accuracy and configured to provide a first time stamp; and

selecting, using the first measuring computer, a third time source of the plurality of first

time sources as a function of an accuracy of the third time source.

[0013.2] The present invention also provides a time synchronization device. The time synchronization device includes: a first measuring computer; a second measuring computer cooperating with the first measuring computer over a telecommunications network; and a plurality of first time sources associated with a first measuring computer, each of the first time sources having a different respective accuracy and configured to provide a first time stamp. The first computer is configured to select a third time source of the plurality of first time sources as a function of an accuracy of the third time source.--.

Please delete paragraph [0014].

Please replace paragraph [0015] with the following rewritten paragraph:

[0015] The present invention ~~is based on~~ includes the discovery that by providing a plurality of independent time sources at the individual measuring computers, the probability that no time source can be read is minimized, thus ensuring that a time stamp is read out.

Please delete paragraph [0035].

Before paragraph [0036], please insert the heading --BRIEF DESCRIPTION OF THE DRAWING--.

Please delete paragraph [0037].

Before paragraph [0040], please insert the heading --DETAILED DESCRIPTION--.

Please replace paragraph [0041] with the following rewritten paragraph:

[0041] Switching exchange 12 is assigned a first measuring computer 28. To receive signals

emitted by a satellite system (GPS) including a plurality of satellites 30, first measuring computer 28 has a GPS antenna 32 and a GPS map ~~(not explicitly shown here)~~ for processing the received signals. GPS antenna 32 and the GPS map, which is not explicitly shown, together form the local GPS receiver of first measuring computer 28 required to receive the GPS signals. Moreover, a local clock 34 is incorporated in first measuring computer 28.

Please replace paragraph [0042] with the following rewritten paragraph:

[0042] A second measuring computer 36 connected to switching device 16 also has a GPS antenna 38 and a local clock 40. The local GPS receiver of second measuring computer 36 required to receive the GPS signals is, in turn, made up of GPS antenna 38 and a GPS map, which is integrated in second measuring computer 36 ~~but not shown here~~.

Please replace paragraph [0043] with the following rewritten paragraph:

[0043] Corresponding peripheral devices, namely a GPS antenna 42 and a local clock 44, are associated with a third measuring computer 46 connected to switching device 20. Here too, a GPS map ~~(not further shown)~~ and GPS antenna 42 form a local GPS receiver of third measuring computer 46 required to receive the emitted GPS signals.

Before paragraph [0067], please delete the heading "List of Reference Numerals".

Please delete paragraph [0067].

In the Abstract:

Please replace the Abstract with the following rewritten Abstract:

~~The invention relates to a method for temporal synchronisation of at least two measuring computers (28, 36, 46), cooperating over a telecommunication network (10) such as internet,~~

~~intranet or similar in which a highly accurate timestamp is required for each measurement process. The invention is characterised in that each measuring computer (28, 36, 46) is provided with several time sources with varying accuracy for reading off the timestamp from a time source and the selection of the time source by the measuring computer (28, 36, 46) is carried out depending an the accuracy of the time source.~~

A method for time synchronization of a number of measuring computers cooperating over a telecommunications network includes providing a number of time sources associated with one of the measuring computers. Each of the time sources has a different accuracy and can provide a time stamp. Using the first measuring computer, one of the time sources is selected as a function of the accuracy of the time source.